

ARAVIND VELAMUR SRINIVASAN

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OBJECTIVE:

Full-time position in the area of wireless networks/wireless sensor networks or in general programming mobile/embedded devices.

ACADEMIC RECORD:

DEGREE	INSTITUTE	YEAR	SCORE
M.S. (Computer Science)	University of Virginia, Charlottesville	2006- (AUG'08)	3.67/4.0
B.Tech (Information Technology)	College of Engineering, Guindy, Anna University, Chennai, India.	2002-2006	9.229/10.0
Higher Secondary	Ahobila Math Oriental Higher Secondary School, West Mambalam, Chennai, India.	2001-2002	98.833%

RESEARCH:

As a member of the Real Time and Embedded systems Laboratory at University of Virginia, I am currently working under the guidance of Professor John A. Stankovic, in wireless sensor networks. I am an active member of the Environmental sub-group of our lab and I developed the MAC layer for our environmental research project called LUSTER. I am also working on Delay Tolerant Networks and I am trying to develop a general framework for these types of networks.

PROJECT DETAILS:

Undergraduate:

1. E Business Implementation:

Implementation of online shopping strategy using java servlets.

2. LAN Programming Contest:

A project developed in UNIX C using the socket concepts, which simulates an online programming contest.

3. Dynamic Packetised Scheduling Algorithm:

A novel scheduling algorithm for packet processors implemented in the INTEL IXP2400 network processor.

4. Optimizing the throughput of Bluetooth in presence of Interference: (thesis)

A project which tried to improve the throughput of Bluetooth in presence of interference, using 'master-slave switch' technique.

Graduate:

1. Implementing Precise Interrupts at Instruction Boundary Using SimpleScalar:

This project simulated the handling of precise interrupts at instruction boundaries using 'sim-outorder' superscalar processor model.

2. Tiling puzzle solver:

Developed an algorithm for solving general Tiling puzzles and implemented it in UNIX C.

3. LUSTER (Light Under the Shrub Thicket for Environmental Research):

A group project for monitoring light falling on the shrubs in eastern shore, Virginia. I implemented the MAC layer in nesC for this project.

4. Delay Tolerant Networking:

Currently working in developing a general framework for delay tolerant sensor networks.

SOFTWARE SKILLS:

Programming Languages: C, C++, Java and nesC.

Operating Systems: Microsoft Windows, DOS, UNIX and TinyOS.

Simulators: MATLAB, NS-2, TOSSIM

DISTINCTIVE ACHIEVEMENTS:

1. Secured **State First** in Maths, Physics, Chemistry and Statistics in Higher Secondary Examinations, March 2002.
2. Awarded **Certificate of Merit** by **Education Department**, Government of TamilNadu under the National Scholarship Scheme in the year 2002.
3. The Association of Mathematics Teachers of India awarded a medal for scoring the maximum mark in **AMTI GAT-2002**.
4. Completed Level 3 examination in **German** conducted by the **Goethe Institut Inter Nationes** in the year **2004**.

EXTRA CURRICULAR ACTIVITIES:

1. Secretary of Deutsch Club, College of Engineering, Guindy 2003-2004.
2. Part of the organizing committee for Abacus, a technical symposium conducted by the department of Computer Science, College of Engineering, Guindy.
3. Was the vice-captain of the Department Cricket team, which secured second place in the intra-college cricket tournament in the years 2005 and 2006.

OTHER INFORMATION:

- 1. Teaching Assistant for CS451** - Wireless Sensor Networks, Fall 2006.
- 2. Teaching Assistant for CS340** - Advanced Software Development, Spring 2007.
- 3. Research Assistant** – Currently I am a Research Assistant under the guidance of Professor John A. Stankovic.

RELEVANT COURSES:

Computer Organization, Operating Systems, Theory of Computation, Sensor Networks, Applied Statistics for Engineers, Algorithms, Computer Networks, From Sensors to Scientists

PUBLICATIONS:

L.Selavo, A.Wood, Q.Cao, T.Sookoor, H.Liu, **A.Srinivasan**, Y.Wu, W.Kang, J.Stankovic
“LUSTER: Wireless Sensor Network for Environmental Research “, Sensys 2007.

HOBBIES:

Singing and listening to music, Reading articles on new technologies, Watching sports and movies.

REFERENCES:

Prof. John A. Stankovic
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